

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A mixer device for materials, ~~notably~~ made up of various divided solid waste in a vertical silo, ~~characterized in that it~~ said mixer device includes:

- a central working area extending along ~~the~~ an entire height of the silo ~~(1)~~ and a peripheral zone,

- lifting means ~~(6)~~ vertically distributed at various successive levels ~~(n₁, n₂, n₃ ... n_m)~~ of the working area, along the entire height of the silo, ~~capable of~~ configured for lifting the material from each of the levels of the working area and ~~of~~ releasing it, said lifting means comprising a plurality of planar blades that are each in the shape of a sector, with a center angle between 20 and 120°, and

- means ~~(1a, 19)~~ capable of configured for bringing the material from ~~the~~ an upper portion of the peripheral zone to ~~the~~ a lower central portion of the silo ~~(1)~~.

2. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the silo ~~(1)~~ is of a cylindrical shape, and the working area also has the shape of a cylinder

coaxial with the silo, the lifting means ~~consist of~~ further comprises a vertical shaft ~~(3)~~ which coincides with ~~the~~ a longitudinal axis of the silo ~~(1)~~, which performs a movement of rotation and which is provided at each of said levels with at least one of said blades ~~blade (6)~~, ~~the~~ a radius ~~(r)~~ of ~~which~~ said blades defines that of the working area and ~~which~~ has an angle of incidence ~~(α)~~ relatively to ~~the~~ a plane of ~~the~~ a cross section ~~(S)~~ of the silo, ~~this blade (6)~~ said blades being tilted from the bottom upwards and on ~~the~~ a side towards which it is brought by the rotational movement towards ~~the~~ an opposite ~~of the latter~~ side.

3. (currently amended) The device according to claim 2, ~~characterized in that~~ wherein the rotational velocity of the shaft ~~(3)~~ is of the order of five to ten revolutions per minute.

4. (cancelled).

5. (currently amended) The device according to claim 2, ~~characterized in that~~ wherein the angle of incidence ~~(α)~~ of the blades ~~(6)~~ is ~~of the~~ adjustable ~~type~~.

6. (currently amended) The device according to claim 2, ~~characterized in that~~ wherein the dimension, in the radial

direction, of a blade (6) is substantially between ~~the~~ a fifth and ~~the~~ a third of the radius (R) of the silo.

7. (currently amended) The device according to claim 2, ~~characterized in that~~ wherein the shaft (3) is provided with a single blade (6) per level and the blades (6) of two successive levels are shifted angularly relatively to each other by an angle of about 90°.

8. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the means capable of bringing the material from the upper portion of the peripheral zone to the lower central portion of the silo (1) are ~~of the static type~~ and consist of a bottom (1a) with a frustro-conical shape.

9. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the means capable of bringing the material from the upper portion of the peripheral zone to the lower central portion of the silo (1) are ~~of the dynamical type~~ and consist of scraping components (19) firmly attached to ~~the~~ a rotary shaft (3) of the lifting means and which are applied onto the internal wall of the base (1a) of the silo (1).

10. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the silo ~~(1)~~ includes loading means ~~(9)~~ through ~~its~~ the upper portion.

11. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the silo ~~(1)~~ includes loading means through ~~its~~ the lower portion, ~~notably~~ consisting of a worm-screw ~~(11)~~.

12. (currently amended) The device according to claim 11, ~~characterized in that~~ wherein the loading means ~~may also~~ is configured to act as unloading means.

13. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the silo ~~(1)~~ is provided with heat insulation means relatively to the outside world.

14. (currently amended) The device according to claim 13, ~~characterized in that~~ wherein the silo ~~(1)~~ is provided with heating means.

15. (currently amended) The device according to claim 1, ~~characterized in that~~ wherein the silo ~~(1)~~ includes means for at least one of introducing ~~(20)~~ and/or extracting fluids.

16-18. (cancelled)

19. (new) A mixer device for materials made up of various divided solid waste in a vertical silo, said mixer device includes:

- a central working area extending along an entire height of the silo and a peripheral zone,

- a plurality of planar blades that are each in the shape of a sector and that are spaced apart from each other and vertically distributed at various successive levels of the working area, along the entire height of the silo, said blades are configured for lifting the material from each of the levels of the working area and releasing the materials, and

- means configured for bringing the material from an upper portion of the peripheral zone to a lower central portion of the silo.